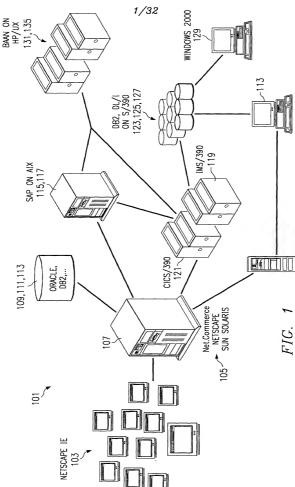
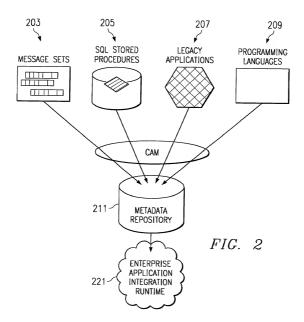
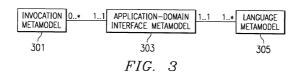
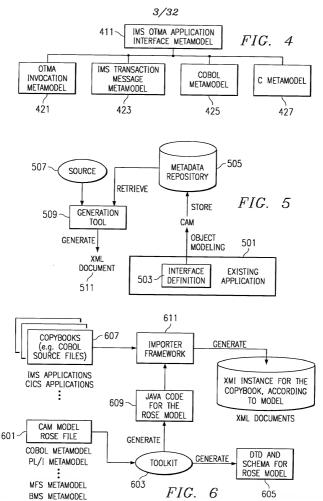
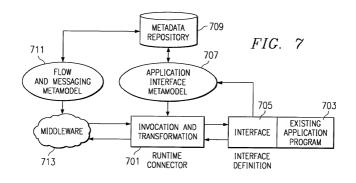
STL92000075US2 Shyh Mei F. Ho, et al. Common Application Metamodel Including C/C++ Metamodel

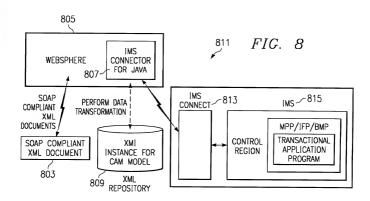


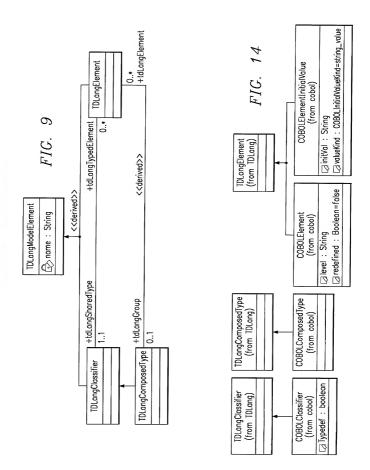


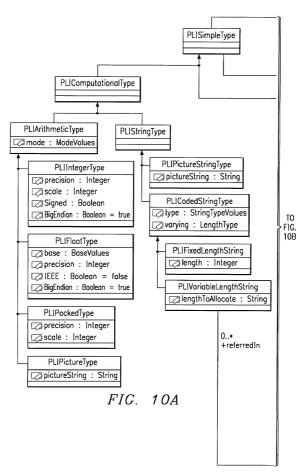


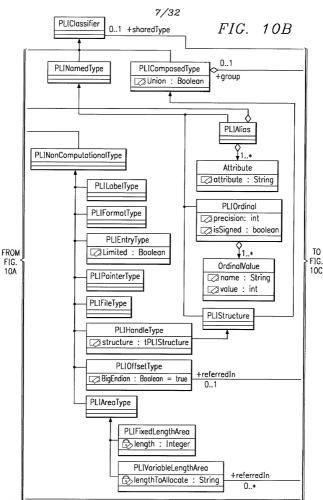


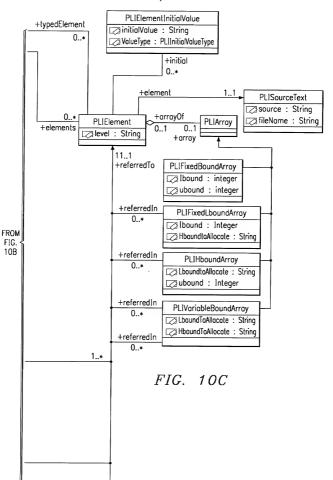












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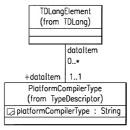
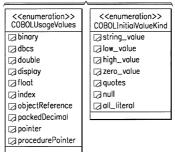
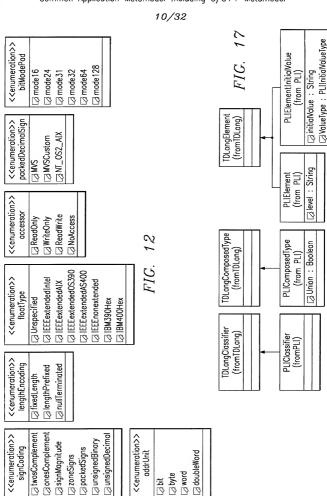


FIG. 11

FIG. 15





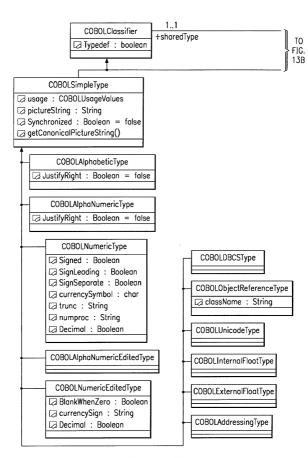
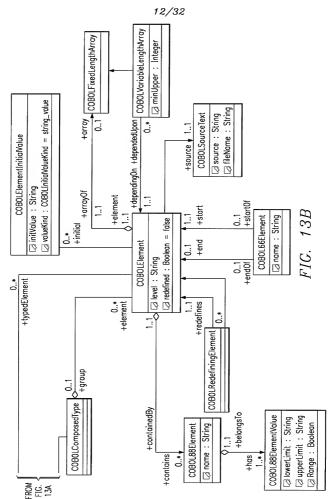
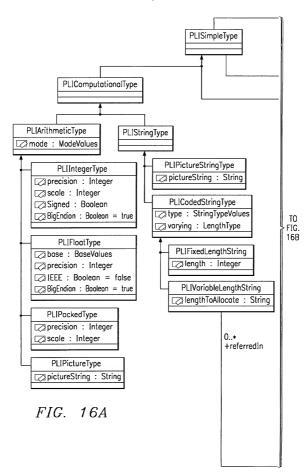
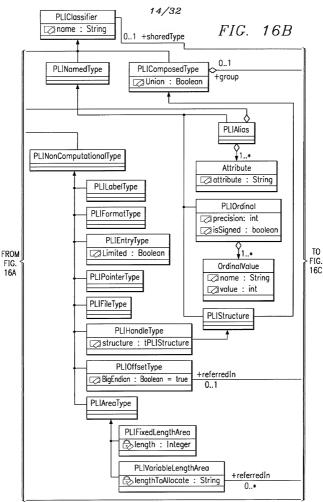
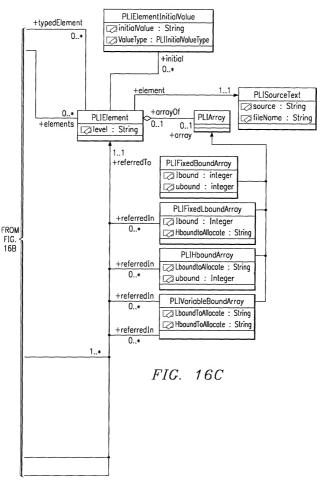


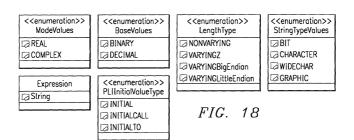
FIG. 13A

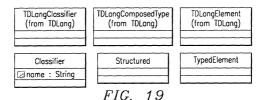


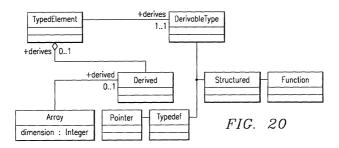




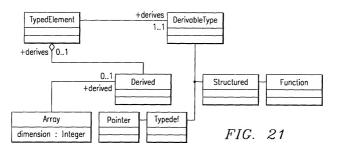








$\begin{array}{c} STL920000075US2\\ Shyh\ \mbox{Mei}\ F.\ \mbox{Ho, et al.}\\ Common\ \mbox{Application}\ \mbox{Metamodel Including C/C++ Metamodel} \end{array}$



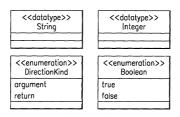
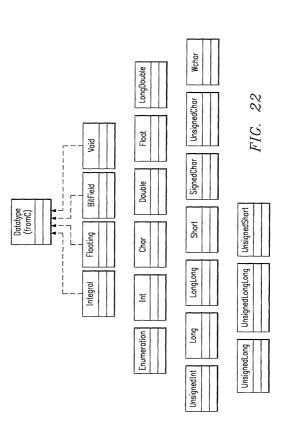


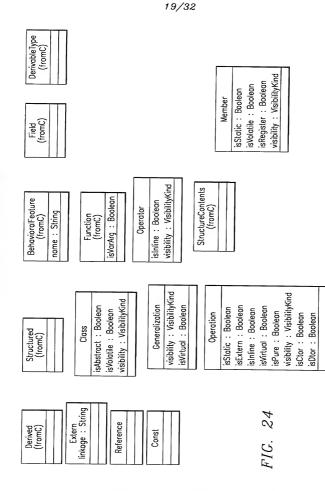
FIG. 23

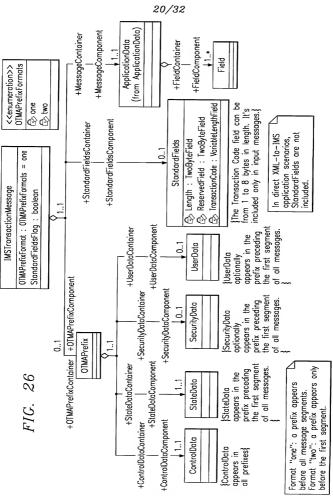


FIG. 25

$\begin{array}{c} STL920000075US2\\ Shyh\ Mei\ F.\ Ho,\ et\ al.\\ Common\ Application\ Metamodel\ Including\ C/C++\ Metamodel \end{array}$

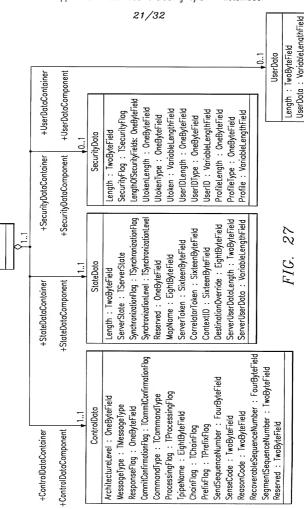






OTMAPrefix

STL920000075US2



< <enumeration>> TCommandType</enumeration>	(2) ClientBid : String (2) ServerAvailable : String (3) CBresynch : String (3) CuspendProcessingForAllIpipes : String (3) SuspendInput forTpipe : String (3) SuspendInput forTpipe : String (3) SuspendInput forTpipe : String (3) ReSumeProcessing (4) String (4) REChesynch : String (4) REPresynch : String (5) REPresynch : String (5) REPresynch : String
< <enumeration>> TCommitConfirmationFlag</enumeration>	
< <enumeration>> TMessageType</enumeration>	© Data : String © Transaction : String © Response : String © Commond : String © CommitConfirmation : String

< <enumeration>> TPrefixFlag</enumeration>	StateData : String	SecurityData: String	🗞 UserData : String	ApplicationData : String
< <enumeration>> TChainFlag</enumeration>	♣FirstInChain : String	MiddleInChain : String	🗞 LastInChain : String	⊘DiscardChain : String
< <enumeration>> TProcessingFlag</enumeration>	SynchronizedTpipe: String	AsynchronousOutput : String	ErrorMessageFollows : String	

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<<enumeration>> **TServerState**

ConversationalState : String

ResponseMode : String

<<enumeration>> TSynchronizationFlag

CommitThenSend : String

SendThenCommit: String

<<enumeration>> **TSynchronizationLevel**

None : String Confirm : String SYNCPT : String

FIG. 29

<<enumeration>> **TSecurityFlag**

NoSecurity : String Check : String

Full : String

FIG. 30

<<pre><<pre><<pre>orimitive>> OneByteField

<<pre><<pre><<pre><<pre><<pre><</pre> TwoByteField

<<pre><<pre><<pre><<pre><<pre><</pre> FourByteField

<<pre><<pre><<pre>corimitive>> SixByteField

<<pre><<pre><<pre><<pre><<pre><</pre>

<<pre><<pre><<pre><<pre><<pre><<pre><<pre> SixteenByteField EightByteField

ARE BIG-ENDIAN ORDERED VERSUS LITTLE-ENDIAN.

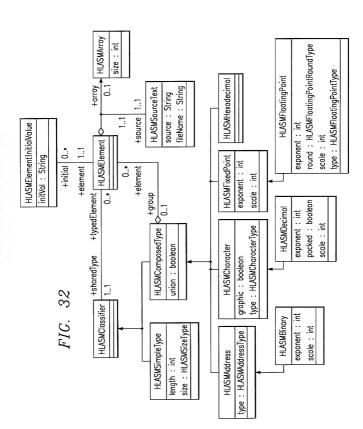
NOTE: THESE PRIMITIVES DON'T TELL YOU THE

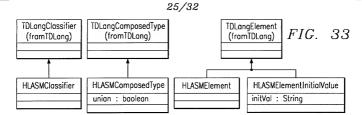
TWO BYTES OF UNICODE, OR THAT THE BYTES

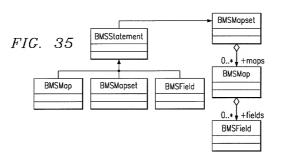
FORMAT OF THE INFORMATION, JUST THE BYTE-LENGTHS. WE MAY NEED TO MODIFY THIS IF WE WANT TO SPECIFY THAT THE DATA IS. FOR EXAMPLE, TWO BYTES OF ASCII VERSUS

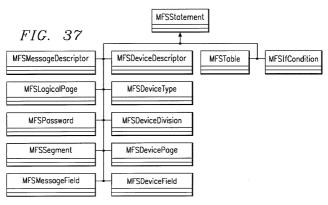
> <<pre><<pre><<pre><<pre><<pre><<pre><<pre><<pre> VariableLengthField

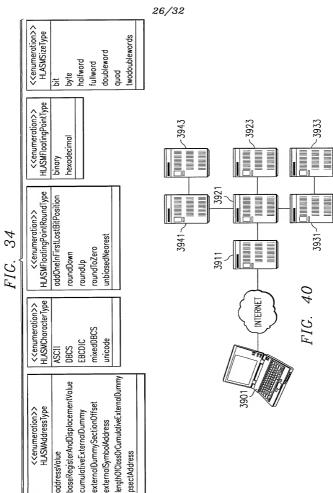
FIG. 31











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	attributes : BMSAttributesType
	case : boolean
	color : BMSColorType
	group : String
	highlighting : BMSHighlightingType
	initialValue : String
уğ	justify : BMSJustifyType
	length : int
	occurs : int
	outlining: BMSOutliningType
	pictureInput : String
	pictureOutput : String
	position : BMSPositionType
	programmedSymbol : String
	shiftOutShiftIn : String
	transparent : boolean
	validation : BMSValidationType

descriptionAttributes : BMSMapAttributesType extendedAttributes : BMSExtendedAttributesTv mapAttributes: BMSMapAttributesType highlighting: BMSHighlightingType outboardFormatting : boolean programmedSymbol : String outlining: BMSOutliningType justify: BMSJustifyType ieldSeparator : String header : boolean partition: String ields : boolean ine: String

shiftOutShiftIn : boolean size: BMSSizeType

ioaPrefix : boolean terminal : String railer : boolean

ransparent : boolean

validation : BMSValidationType

column : String BMSMapset

BMSField

BMSMap

control : BMSControlType cursorLocation : boolean base : String color : BMSColorType

control : BMSControlType cursorLocation : boolean

data : BMSDataType

color : BMSColorType

extendedAttributes : BMSExtendedAttributesType descriptionAttributes: BMSMapAttributesType data : BMSDataType

highlighting : BMSHighlightingType fieldSeparator : String old BMSFoldType

language ; BMSLanguageType ogicalDeviceCode : int norizontalTabs : int

mapAttributes : BMSMapAttributesType outboardFormatting : boolean outlining: BMSOutliningType mode : BMSModeType partition : String

shiftOutShiftIn : boolean storage : boolean terminal : String suffix : String

programmedSymbol : String

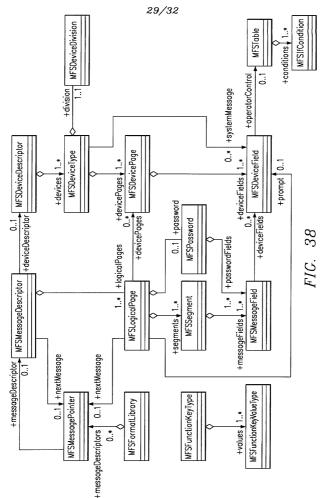
ype : BMSMapsetType ransparent : boolean ioaPrefix : boolean trigraph : boolean

validation : BMSValidationType

$STL920000075US2\\ Shyh \ \mbox{Mei}\ \ F.\ \ \mbox{Ho, et al.}\\ Common\ \ \mbox{Application}\ \ \mbox{Metamodel Including C/C++ Metamodel}$

Common	Application Metamodel Including C/C++ Metamodel
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BMSStatement label : String comments : String	<pre>> BMSFoldType lower upper > BMSLanguageType assembler cobol cobol cobol2 pif mustFill mustFill mustFill mustFill mustFill suserExit userExit</pre>
<pre><<enumeration>> BMSExtendedAttributesType no no maponly</enumeration></pre>	BMSJustifyType left: boolean right: boolean first: boolean lost: boolean BMSPositionType line: int column: int number: int column: int
> BMSDataType field block	<pre><<enumeration>> BMSHighlighting Type off blink reverse underline BMSOuttlining Type box : boolean left : boolean right : boolean over : boolean under : boolean under : boolean</enumeration></pre>
	<pre><<enumeration>> BMSControllype print length freekb alarm frset ckenumeration> BMSMadeType out in inout</enumeration></pre>
FIG. 36B	Accounteration>> BMSColorType default blue red green pink turquoise yellow neutral Accounteration> BMSMapsetType dsect map final
	Skip : boolean bright : boolean dark : boolean dark : boolean dark : boolean modified : boolean normal : boolean normal : boolean numeric : boolean protected : boolean protected : boolean protected : boolean protectin : boolean programmedSymbol : boolean programmedSymbol : boolean sosi : boolean transparent : boolean validaiton : boolean

STL920000075US2 Shyh Mei F. Ho, et al. Common Application Metamodel Including C/C++ Metamodel



										3	0/	ىد										
MFSDeviceField	attributes : MFSAttributeType extendedAttributes : MFSExtendedAttributeType			ositionType					MFSFormott ibrory			, ,	e MFSMessagePointer	name : String	MFSExtendedAttributeType	olorType	extendedGraphicCharacterSet : String	highlighting : MFSHighlightingType	an	outlining: MFSOutliningType	programmedSymbol : String	validation : MFSValidationType
MFS	attributes : MFSAttributeType extendedAttributes : MFSExtended	length : int	pen : String	position : MFSPositionType	value : String		MFSMessageField	attributes : boolean	exit : MFSExitType	extendedAttributes : int	fill : String	justify: MFSJustifyType	length: MFSLengthType	: String	MFSExte	color : MFSColorType	extendedGraph	highlighting :	mixed : boolean	outlining : MF	programmedS	validation : M
ision	rType npressionType				lype				exit	exten		justify	length	value :		MFSExitType	nımber . int	vector : int				
MFSDeviceDivision	type : MFSDescriptorType compression : MFSCompressionType			MFSDevicePage	cursor : MFSCursorType	fill : String	multiplePages : boolean			MFSSegment	exit : MFSExitType	graphic : boolean			MFSCursorType	row : int	column : int	fieldName : String				FIG. 39A
MFSDeviceType	card : String dsca : String	features : MFSFeatureType	page : MFSPageType	pen : String	pk : MFSFunctionKeyType	Substitution : String	type : string width : int			MFSLogicalPage	condition : MFSConditionType	promptValue : String			MFSConditionType	leftOperand : String	rightOperand : String	operator : MFSOperatorType				
MFSStatement	label : String comments : String			MFSIfCondition	condition : MFSConditionType	action : String			MFSMessageDescriptor	fill : String	ignoreSource : boolean	option : int	paging : boolean	type : MFSDescriptorType	MFSAttributeType	attributeBytes : boolean	detectable : MFSDetectabilityType	intensity: MFSIntensityType	modified : boolean	numeric : boolean	protected : boolean	strip : boolean

			31	/32			
MFSPositionType row : int column : int physicalPage : int	Type	peFormattingType		< <enumeration>> MFSIntensityType</enumeration>	normal	nondisplayable	39B
MFSLengthType length : int firstByte : int	MFSPageType	number : int formatting : MFSPageFormattingType		< <enumeration>> MFSHighlightingType</enumeration>	default blink	reversevideo underline	FIG.
Type on on on son son son	<u>6</u>			< <enumeration>> MFSDetectabilityType</enumeration>	deferred	nondetectable	<pre><<enumeration>> MFSValidation/ype default fill field both</enumeration></pre>
	value : String	< <enumeration>> MFSDescriptorType</enumeration>	input	output inout			<pre><<enumeration>> </enumeration>> defined space float float</pre>
	Iunculon : String	< <enumeration>> MFSCompressionType</enumeration>	fixed	short all		< <enumeration>> MFSOperatorType</enumeration>	equal notiqual greaterThan greaterThanOrEqual lessThanOrEqual
MFSFeatureType card : boolean dateEntryKeyboard : boolean funtonKeys : boolean group : int ignoup : int	peri . Doolegii	< <enumeration>> MFSColorType</enumeration>	plue		pink	yellow default	neutral > MFSJustifyType left right

